



PATENT COOPERATION TREAT

PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference AJC/P053069WO			FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No. PCT/GB 03/04097			International filing date (day 26.09.2003	//month/year)	Priority date (day/month/year) 27.09.2002
nternation	nal Paten	Classification (IPC) or t	ooth national classification and	IPC	
G21C19					
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A Noont					
Applicant BRITISH	H NUCL	EAR FUELS PLC	et al.		
1. Thi	is internation	ational preliminary ex nd is transmitted to th	amination report has been peen peed applicant according to Ar	prepared by this l ticle 36.	nternational Preliminary Examining
2. Th	nis REPO	ORT consists of a tota	of 5 sheets, including this	cover sheet.	
			anied by ANNEXES, i.e. she basis for this report and/oon 607 of the Administrative		ription, claims and/or drawings which have ng rectifications made before this Authority der the PCT).
	•				
These annexes consist of a total of sheets.					
3 Th	his repor	t contains indications	relating to the following ite	ms:	т, .
	_		relating to the following iter	ms:	.,.
i	×	Basis of the opinion	relating to the following iter	ms:	nga - a
i 11		Basis of the opinion			tep and industrial applicability
1 11 111		Basis of the opinion Priority Non-establishment	of opinion with regard to no		tep and industrial applicability
i 11		Basis of the opinion Priority Non-establishment Lack of unity of inve	of opinion with regard to no ntion of under Bule 66.2(a)(ii) wit	velty, inventive s	tep and industrial applicability ty, inventive step or industrial applicability;
i 11 111 18		Basis of the opinion Priority Non-establishment Lack of unity of inve	of opinion with regard to no ntion nt under Rule 66.2(a)(ii) wit nations supporting such sta	velty, inventive s	
 		Basis of the opinion Priority Non-establishment Lack of unity of inve Reasoned statemer citations and explar Certain documents	of opinion with regard to no ntion nt under Rule 66.2(a)(ii) wit nations supporting such sta cited	velty, inventive s	
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 		Basis of the opinion Priority Non-establishment of Lack of unity of inverse Reasoned statement citations and explar Certain documents Certain defects in the Certain observation	of opinion with regard to no ntion nt under Rule 66.2(a)(ii) wit nations supporting such sta cited ne international application	ovelty, inventive so the regard to novel tement cation	ty, inventive step or industrial applicability;
 		Basis of the opinion Priority Non-establishment Lack of unity of inve Reasoned statemer citations and explar Certain documents Certain defects in the	of opinion with regard to no ntion nt under Rule 66.2(a)(ii) wit nations supporting such sta cited ne international application	ovelty, inventive s h regard to novel tement	ty, inventive step or industrial applicability;
 	⊠ II □ V □ V ⊠ VIII □ f submissi	Basis of the opinion Priority Non-establishment of Lack of unity of inverse Reasoned statement citations and explar Certain documents Certain defects in the Certain observation	of opinion with regard to no ntion nt under Rule 66.2(a)(ii) wit nations supporting such sta cited ne international application	ovelty, inventive so the regard to novel tement cation	ty, inventive step or industrial applicability;
II	⊠ □ II □ V □ V ⊠ VIII □ F submissi	Basis of the opinion Priority Non-establishment of Lack of unity of inverse Reasoned statement citations and explar Certain documents Certain defects in the Certain observation	of opinion with regard to no intion it under Rule 66.2(a)(ii) wit lations supporting such stat cited he international application is on the international appli	h regard to novel tement cation	ty, inventive step or industrial applicability;
IIIIIV V V V V Date of		Basis of the opinion Priority Non-establishment of Lack of unity of invented in the Priority of the International Indiana Indi	of opinion with regard to no intion it under Rule 66.2(a)(ii) wit lations supporting such stat cited he international application is on the international appli	h regard to novel tement cation Date of completto 22.10.2004 Authorized Office	ty, inventive step or industrial applicability;
II	SUM	Basis of the opinion Priority Non-establishment of Lack of unity of inverse Reasoned statemer citations and explar Certain documents Certain defects in the Certain observation on of the demand	of opinion with regard to no ntion at under Rule 66.2(a)(ii) wit lations supporting such sta- cited he international application as on the international appli	h regard to novel tement cation Date of completio	n of this report

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/04097

ı	Basis	of the	report

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	ription, Pages				
	1-6		as originally filed			
	.	Alexandra and				
	Clair	ns, Numbers				
	1-22		as originally filed			
2.	With lang	regard to the langua uage in which the inte	ge, all the elements marked above were available or furnished to this Authority in the mational application was filed, unless otherwise indicated under this item.			
	Thes	se elements were avai	lable or furnished to this Authority in the following language: , which is:			
		the language of a tran	slation furnished for the purposes of the international search (under Rule 23.1(b)).			
			ation of the international application (under Rule 48.3(b)).			
			slation furnished for the purposes of international preliminary examination (under			
3.	With	ith regard to any nucleotide and/or amino acid sequence disclosed in the international application, the ernational preliminary examination was carried out on the basis of the sequence listing:				
		contained in the inter	national application in written form.			
		filed together with the	international application in computer readable form.			
		furnished subsequent	ly to this Authority in written form.			
			tly to this Authority in computer readable form.			
		The statement that the in the international ap	e subsequently furnished written sequence listing does not go beyond the disclosure plication as filed has been furnished.			
		The statement that the listing has been furnished	e information recorded in computer readable form is identical to the written sequence shed.			
4.	The	amendments have re	sulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have to beyond the disclosure as filed (Rule 70.2(c)).			
		(Any replacement sh	eet containing such amendments must be referred to under item 1 and annexed to this			
6	. Add	ditional observations, i	f necessary:			



INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-22

Inventive step (IS)

No: Claims

1-22

Yes: Claims Claims No:

Yes: Claims

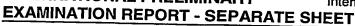
1-22

Claims No:

2. Citations and explanations

Industrial applicability (IA)

see separate sheet



Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- Reference is made to the following document/s/: 1.
 - D1: US-A-5171546
 - D2: US-A-5745835
 - D3: US-A-4749519
 - D4: US-A-5437847
 - D5: US-A-5069827
 - D6: Physics Doklady, American Institute Of Physics. New York, Us (01-09-1993), 38(9), 394-395
 - D7: Journal Of Alloys And Compounds, Elsevier Sequoia, Lausanne, Ch (12-06-1998), 271-273, 693-696
- 2. D1, especially description column 1, line 5 to column 4, line 49 and claims describes the removal of palladium by solvent extraction in a process wherein actinides are dissolved in nitric acid. The use of divalent silver for this purpose is not mentioned. D1 is silent about any reason why palladium shall be removed besides the fact that it is present in non-negligible concentration. Any hint to a positive influence of a silver salt promoted dissolution of actinic oxides if palladium is not present cannot be found.

D2 (see the whole document) as well as D3 (see the whole document) disclose the dissolution of actinic oxides in nitric acid with the help of divalent silver salts in an electrolytic cell.

D4, especially description column 1, line 15 to column 3, line 60 discloses the removal of palladium by precipitation, complexation or electrolytically in solutions containing dissolves actinide oxides in nitric acid. Divalent silver is not used. The reason for the palladium removal is different from the reason in present Application: Palladium disturbs Rhutenium recovery in D4.

Applicant argumentation is therefore convincing. A combination of D1 or D4 with one of D2 or D3 is based on a classic ex-post-facto-analysis of present



Application.

Claim 1 is in accordance with article 33 PCT with regard to novelty and inventive

Dependent claims 2 to 22 are preferred embodiments of claim 1 and as such they 3. fulfil the requirements of article 33 PCT as well.